In re of: FISHMAN18A

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

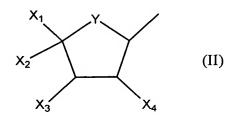
- 1. (Original) A method for the treatment of accelerated bone resorption in a mammal subject, the method comprises administering to said subject in need of said treatment an amount of an A_3 adenosine receptor agonist (A_3AR agonist), the amount being effective to inhibit bone resorption.
- 2. (Original) The method of Claim 1, wherein said mammal is a human subject.
- 3. (Original) The method of Claim 1, for the treatment of inflammation induced bone resorption.
- 4. (Original) The method of Claim 3, for the treatment of bone resorption induced by inflammatory arthritis.

In re of: FISHMAN18A

- 5. (Original) The method of Claim 1, wherein said treatment comprises oral administration of A_3AR agonist to said subject in need.
- 6. (Original) The method of Claim 5, wherein said treatment comprises administration of A_3RA agonist to said subject once or twice daily.
- 7. (Currently Amended) The method of Claim 1, wherein said A_3AR agonist is a compound within the scope of the general formula (I):

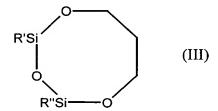
wherein,

- R_1 represents an alkyl, hydroxyalkyl, carboxyalkyl or cyanoalkyl or a group of the following general formula (II):



in which:

- Y represents an oxygen, sulfur or CH2;
- X₁ represents H, alkyl, R^aR^bNC(=0) or HOR^c-, wherein
 - R^a and R^b may be the same or different and are selected from the group consisting of hydrogen, alkyl, amino, haloalkyl, aminoalkyl, BOC-aminoalkyl, and cycloalkyl or are joined together to form a heterocyclic ring containing two to five carbon atoms; and
 - R° is selected from the group consisting of alkyl, amino, haloalkyl, aminoalkyl, BOC-aminoalkyl, and cycloalkyl;
- \mathbf{x}_2 is H, hydroxyl, alkylamino, alkylamido or hydroxyalkyl;
- \mathbf{X}_3 and \mathbf{X}_4 represent independently hydrogen, hydroxyl, amino, amido, azido, halo, alkyl, alkoxy, carboxy, nitrilo, nitro, trifluoro, aryl, alkaryl, thio, thioester, thioether, -OCOPh, -OC(=S)OPh or both \mathbf{X}_3 and \mathbf{X}_4 are oxygens connected to >C=S to form a 5-membered ring, or \mathbf{X}_2 and \mathbf{X}_3 form the ring of formula (III):



where R' and R'' represent independently an alkyl group;

In re of: FISHMAN18A

- R_2 is selected from the group consisting of hydrogen, halo, alkylether, amino, hydrazido, alkylamino, alkoxy, thioalkoxy, pyridylthio, alkenyl; alkynyl, thio, and alkylthio; and
- R_3 is a group of the formula -NR₄R₅ wherein
- $\mathbf{R_4}$ is a hydrogen atom or a group selected from alkyl, substituted alkyl or aryl-NH-C(Z)-, with \mathbf{Z} being O, S, or NR^a with \mathbf{R}^a having the above meanings; wherein when $\mathbf{R_4}$ is hydrogen than then
- R_5 is selected from the group consisting of R- and S-1-phenylethyl, benzyl, phenylethyl or anilide groups unsubstituted or substituted in one or more positions with a substituent selected from the group consisting of alkyl, amino, halo, haloalkyl, nitro, hydroxyl, acetoamido, alkoxy, and sulfonic acid or a salt thereof; benzodioxanemethyl, fururyl, L-propylalanyl- aminobenzyl, β -alanylamino- benzyl, T-BOC- β -alanylaminobenzyl, phenylamino, carbamoyl, phenoxy or cycloalkyl; or R_5 is a group of the following formula:

or when $\mathbf{R_4}$ is an alkyl or aryl-NH-C(Z)-, then, $\mathbf{R_5}$ is selected from the group consisting of heteroaryl-NR^a-C(Z)-, heteroaryl-C(Z)-, alkaryl-NR^a-C(Z)-, alkaryl-C(Z)-, aryl-NR-

C(Z) - and aryl-C(Z) -; **Z** representing an oxygen, sulfur or amine;

or a physiologically acceptable salt of the above compound.

8. (Currently Amended) The method of claim 1, wherein said A_3AR agonist is a nucleoside derivative of the general formula (IV):

wherein

X₁ represents H, alkyl, R^aR^bNC(=O) - or HOR^c-, wherein

- R^a and R^b may be the same or different and are selected from the group consisting of hydrogen, alkyl, amino, haloalkyl, aminoalkyl, BOC-aminoalkyl, and cycloalkyl or are joined together to form a heterocyclic ring containing two to five carbon atoms; and
- R° is selected from the group consisting of alkyl, amino, haloalkyl, aminoalkyl, BOC-aminoalkyl, and cycloalkyl;

R₂ is selected from the group consisting of hydrogen, halo, alkylether, amino, hydrazido, alkylamino, alkoxy, thioalkoxy, pyridylthio, alkenyl; alkynyl, thio, and alkylthio; and

R₄ is a hydrogen atom or a group selected from alkyl,
substituted alkyl or aryl-NH-C(Z)-, with **Z** being O, S, or

NR^a with R^a having the above meanings are as defined in
claim 3,

and physiologically acceptable salts of said compound.

- 9. (Original) The method of Claim 1 wherein said A_3AR agonist is selected from N^6-2- (4-aminophenyl)ethyladenosine (APNEA), N^6- (4-amino-3-iodobenzyl) adenosine- 5'-(N-methyluronamide) (AB-MECA), N^6- (3-iodobenzyl)-adenosine-5'-N-methyluronamide (IB-MECA) and 2-chloro- N^6- (3-iodobenzyl)- adenosine-5'-N-methyluronamide (Cl-IB-MECA).
- 10. (Original) The method of claim 9, wherein said A_3AR agonist is IB-MECA.

Claim 11-19 (Cancelled).